

10/593501

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

Attorney Docket No.: 3081.167US01

Mark Bischoff et al.

Application No.: Unknown

Filed: *Of Even Date*

For: MATERIAL MACHINING DEVICE AND METHOD

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INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. § 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom. The listing of a reference herein is not an admission that the reference is prior art or that the reference is material to patentability.

This Information Disclosure Statement is being filed with the application. No certification or fee is required.

Some of the references were cited in a counterpart foreign application. An English language translation of the international search report (for PCT/EP2005/003066) is attached for the Examiner's information. The search report identifies the relevance of the cited references.

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Please note that the following foreign language reference has an English language counterpart, which is presumed to have corresponding subject matter as the foreign language reference and is listed on the attached Form PTO-1449:

U.S. Patent No. 6,191,880 B1 is an English language counterpart to EP 0 764 858 A2.

Please also note that one of the foreign language references (WO 01/11408 A1) does not have an English language counterpart but has an English language abstract. The concise relevance of this reference is provided by said abstract.

This application was filed after June 30, 2003; therefore, copies of cited U.S. patents and U.S. published applications are not included.

Respectfully submitted,



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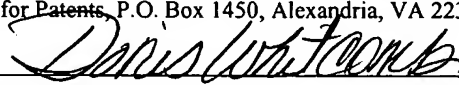
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Doris Whitcomb

Name of Person Making Deposit



Signature

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	Unknown
				Filing Date	Of Even Date 10/593501
				First Named Inventor	Mark Bischoff
				Art Unit	Unknown
				Examiner Name	Unknown
Sheet	1	of	2	Attorney Docket Number	3081.167US01

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number-Kind Code <sup>2</sup> (if known)		
		US-4,826,299	05/02/1989	Powell
		US-5,219,343	06/15/1993	L'Esperance, Jr.
		US-5,470,329	11/28/1995	Sumiya
		US-5,984,916	11/16/1999	Lai
		US-6,110,166	08/29/2000	Juhasz
		US-6,191,880 B1	02/20/2001	Schuster
		US-6,268,586 B1	07/31/2001	Stuart et al.
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## FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)			
		WO 01/11408 A1	02/15/2001	Quabis	
		WO 03/028940 A1	04/10/2003	Ngoi Kok Ann	
		WO 93/25166	12/23/1993	King	
		EP 0 764 858 A2	03/26/1997	Schuster	
		EP 0 257 836 A1	03/02/1988	L'Esperance	
		EP 1 279 386 A1	01/29/2003	Bille	

EXAMINER SIGNATURE	DATE CONSIDERED
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>				Complete if Known	
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				Filing Date	Of Even Date
				First Named Inventor	Mark Bischoff
				Art Unit	Unknown
				Examiner Name	Unknown
Sheet	2	of	2	Attorney Docket Number	3081.167US01
<b>NON PATENT LITERATURE DOCUMENTS</b>					
EXAMINER INITIAL*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T <sup>2</sup>
		Homepage "optics.org", <a href="http://optics.org/articles/news/9/11/20/1">http://optics.org/articles/news/9/11/20/1</a> .			
		QUABIS, S., "Focusing light to a tighter spot," <u>Optics Communications</u> , Vol. 179, pp. 1-7 (2000).			
		HELSETH, L.E., "Roles of polarization, phase and amplitude in solid immersion lens systems," <u>Optics Communications</u> , Vol. 191, pp. 161-172 (2001).			
		DORN, R., "The focus of light – linear polarization breaks the rotational symmetry of the focal spot," <u>J. of Modern Optics</u> , Vol. 50, No. 12, pp. 1917-1926 (2003).			
		QUABIS, S., "Reduction of the spot size by using a radially polarized laser beam," <u>Proc SPIE</u> , Vol. 4429, pp. 105-111 (2001).			
		NIZIEV, V.G., "Peculiarities of laser cutting with polarized radiation," <u>SPIE</u> , Vol. 688, pp. 169-178 (1999).			
		ZHAN, Q., "Focus shaping using cylindrical vector beams," <u>Optics Express</u> , Vol. 10, No. 7, pp. 324-331 (2002).			
		NIZIEV, V.G., "Influence of beam polarization on laser cutting efficiency," <u>J. Phys. D.: Appl. Phys.</u> , Vol. 32, pp. 1455-1461 (1999).			
EXAMINER SIGNATURE		DATE CONSIDERED			
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.</p> <p>This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. <b>SEND TO: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.</b></p> <p style="text-align: center; font-style: italic;">If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.</p>					